



For research use only

ISO9001

RNase III (*E.coli*)

Product	Quantity	Cat. No.	Remarks
RNase III (<i>E.coli</i>)	200 unit	EBT-3022	1 unit/ μ l

Description

RNase III (*E.coli*) catalyzes the long double-stranded RNA into a heterogeneous short (18-25 bp) interfering RNAs (siRNA) suitable for RNA interference in mammalian cells. 1 unit of RNase III is sufficient to convert 1 mg of dsRNA into siRNA suitable for RNA interference in mammalian cells. RNase III is purified from a recombinant *E.coli* strain.

Applications

- Digest long dsRNA to short dsRNA fragments.
- RNA structure studies.
- RNA processing and maturation studies.

Concentration & Storage Condition

1 unit/ μ l . Store at -20°C.

Storage Buffer

10 mM Tris-HCl, pH8.0, 500 mM NaCl, 1 mM DTT, 0.5 mM EDTA, 50% glycerol

10x Reaction Buffer

100mM Tris-HCl, pH 8.0, 500mM NaCl, 100mM MgCl₂ and 10mM DTT.

Unit Definition

One unit is the amount of enzyme required to digest 1 μ g of dsRNA to siRNA in 20 min at 37°C in a total reaction volume of 50 μ l.

QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.



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